

Draft - April 2, 2004

**EPA Science Advisory Board  
Committee on Valuing the Protection of Ecological Systems and Services  
Workshop on Different Approaches and Methods for Valuing the Protection of  
Ecological Systems and Services  
April 13-14, 2004  
Four Points Sheraton  
1201 K Street, NW  
Washington, DC, 20005**

**Purpose:** The purpose of the Workshop is for the Committee to discuss the desired characteristics and desired outcomes of knowledge, methodologies, practice, and research for valuing the protection of ecological systems and services that will help EPA better understand and communicate those values. The Committee will hear presentations from several of its members and from scientists within EPA and outside the Agency on examples that illustrate use of different major science-based approaches and will discuss these examples with presenters. The Committee will also discuss suggestions for its next steps in addressing its overall charge, *to assess Agency needs and the state of the art and science of valuing protection of ecological systems and services, and then to identify key areas for improving knowledge, methodologies, practice, and research.*

**Tuesday April 13, 2004**

9:00-9:10	Opening of Workshop; Welcome from the SAB Staff Director	Dr. Angela Nugent, Designated Federal Officer Dr. Anthony Maciorowski, Deputy Director for Science, SAB Staff Office
9:10-9:30	Remarks from the Chair and Committee Member Introductions	Dr. Domenico Grasso, Chair Committee Members
9:30-10:15	Presentation of the Channel Island National Marine Sanctuary No-Take Zone Analysis and Committee Discussion <i>Focus: Ecological analysis supporting a theoretical production function approach</i>	Dr. Joan Roughgarden, Committee Member
10:15-10:30	Break	
10:30-11:15	Presentation of Mangrove-Fishery Linkages in Thailand Example and Committee Discussion <i>Focus: Production function approach, collaboration between economists and ecologists in valuation</i>	Dr. Ivar Strand, Professor Emeritus, University of Maryland
11:15-12:00	General Discussion	Committee
12:00-1:00	Lunch	

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1:00-1:40	Presentation of NatureServe Decision Support System in Napa Valley and Committee Discussion <i>Focus: Geographic Information System identifying ecological significant areas</i>	Dr. Dennis Grossman, Committee Member
1:40-2:20	Presentation on Coastal Resource Loss in Thailand and Committee Discussion <i>Focus: systematic assessments of public values of different environmental losses</i>	Dr. Thomas Brown, USDA Forest Service
2:20-3:00	Presentation of British Columbia Hydro-Power Example <i>Focus: Group decision processes; decision-aiding concepts</i>	Dr. Joseph Arvai, Ohio State University
3:00-3:20	Break	
3:20-4:15	Presentation of Clinch River Example and Conceptual Approach from EPA-ORD Report Integrating Ecological risk Assessment and Economic Analysis in Watersheds: A Conceptual Approach and Three Case Studies and Committee Discussion <i>Focus: Conjoint analysis and proposal for integrating ecological risk assessment and economic analysis</i>	Dr. Randall Bruins, EPA, Office of Research and Development
4:15-5:00	General Discussion	Committee
5:00-5:15	Discussion of Plans for Second Day	Dr. Domenico Grasso
5:15	Adjourn	

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Wednesday, April 14, 2004

8:30-8:35	Opening of Workshop	Dr. Angela Nugent
8:35-9:30	Presentation of Blackbird Mine Hazardous Waste Site and Great Lakes Dredge and Dock Examples and an Overview of Resource Equivalency/Habitat Equivalency Approach and Committee Discussion <i>Focus: Habitat and Resource Equivalency Analysis</i>	Mr. David Chapman, Stratus Consulting
9:30-10:15	Presentation of EPA's Environmental and Economic Benefit Analysis Supporting Regulations Affecting Concentrated Animal Feeding Operations <i>Focus: Contingent valuation, avoided damage, consumer demand, willingness-to-pay</i>	Dr. Sharon Hayes Director, Water Policy Staff, EPA  Chris Miller, Ph.D., Economist, Office of Water
10:15-10:30	Break	
10:30-11:15	Presentation of Valuation Approach To Ecological Benefits in EPA's First Prospective 812 Analysis of the Benefits Associated with Implementing the Clean Air Act and Committee Discussion <i>Focus: Identification of broad range of ecological services and a subset monetized and quantified for valuation.</i>	Mr. James DeMocker, EPA, Office of Air and Radiation
11:30-12:00	Public Comment	To Be Identified
12:00-1:15	Lunch	
1:15-2:00	Presentation on the Global Unified Metamodel of the Biosphere (GUMBO) and Committee Discussion <i>Focus: Dynamic model that includes ecosystem services</i>	Dr. Robert Costanza, Committee Member
2:00-2:45	General Discussion	Committee
2:45-3:30	Identification of Additional Examples for Presentation and Discussion by the Committee; Discussion of Next Steps for the Committee's Work	Committee
3:30-3:45	Summary of Next Steps	Dr. Domenico Grasso
3:45	Adjourn	